

Measuring devices  
with with high  
resolution display

# (e)XC(lusiv) Series XC250

- Precision of the xc200 combined with a high-precision pyrometer ( $\pm 0,5^{\circ}\text{C}$  @  $0^{\circ}\text{C}$  ...  $50^{\circ}\text{C}$ )
- Noncontact temperature measurement
- Continuous measurand output of the thermopile to the LCD
- Adjustable emmissivity, to adapt to different surfaces
- Pyrometer is laser assisted
- Configurable condensation/dew alarm with contact-free measurements (Application: e.g. detect molds)
- Two lines color display with large digits
- Accurate measurement of temperature and relative humidity
- Calculation of dew point temperature of the ambient air
- Calculation of mixed ratio
- Display of MAX, MIN, HOLD, AVG and ACT, easily selectable
- Easy-to-use touch operations (capacitive)
- USB interface for SmartGraph3 software
- Calibration certificate



# Hand-held measuring device XC250

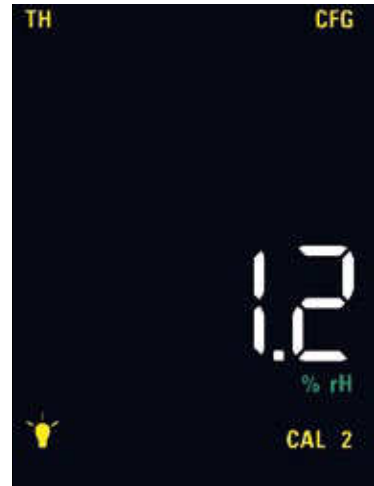
## Pyrometer Temperature/Humidity



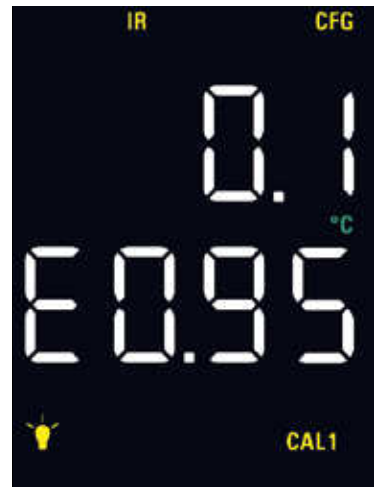
The powerful and compact handheld device with state-of-the-art and robust design. Excellent accuracy. The high-resolution color screen displays rel. humidity, temperature and dew point. Excellent readability. The calibration function (offset correction) guarantees the long-term use without compromising the accuracy.

### Special features: Contact-free temperature measurement

| Hand-held measuring device XC250   |                                     | Order No.  |
|--|-------------------------------------|--|
| <b>Excellent accuracy of temperature and relative humidity. Contact-free temperature measurement. Display of calculations and statistical functions. Adjustment of local pressure and local height possible. Calibration function and offset correction. Including a calibration certificate. USB interface with SmartGraph3 software.</b> |                                     | 5725.00  |
| <b>Technical data</b>  | Dimensions                          | 170x60x35 mm   |
|  | Weight                              | Approx. 250g   |
| <b>Temperature Sensor</b>  | Principle                           | NTC  |
|  | Measurement range                   | -20...50°C   |
|  | Accuracy                            | +/- 0.2°C (0...40°C) otherwise +/- 0.4°C   |
|  | Resolution                          | 0.1°C  |
| <b>Surface temperature</b>   | Principle                           | Thermopile   |
|  | Measurement range                   | -70 ... 380 °C   |
|  | Unit                                | °C   |
|  | Accuracy                            | ± 0.5°C (0...50°C) otherwise ± 4°C   |
|  | Resolution                          | 0.1  |
| <b>Humidity Sensor</b>   | Principle                           | Capacitive   |
|  | Measurement range                   | 0...100%RH   |
|  | Accuracy                            | +/- 2%RH   |
|  | Resolution                          | 0.1%RH   |
|  | Calculations                        | Dew point temperature °C or °F<br>Absolute humidity g/m³<br>Mixed ratio g/kg or gr/lb                              |
|  | Functions                           | Statistical calculations MAX, MIN, HOLD, AVG, ACT. Temperature correction and humidity correction factors (offset) |
| <b>Storage conditions</b>  | Permitted ambient temperature       | -20...60°C   |
|  | Permitted rel. humidity             | <95%RH non-condensing  |
| <b>Operating conditions</b>  | Permitted ambient temperature       | -20°C...50°C   |
|  | Permitted rel. humidity             | <90%RH   |
| <b>Power supply</b>  | Power consumption                   | 5.5V ± 10% DC, max 200mA   |
|  | Stromaufnahme aktiv                 | Approx. 70mA   |
|  | Stromaufnahme passiv                | Approx. 40µA   |
|  | Batterielebensdauer                 | Approx. 24h (2.6Ah battery capacity)   |
| <b>Warranty</b>  |                                     | 12 months  |
| <b>Accessories</b>   | Case for hand-held-measuring device | 5800.BAG   |



User-offset configuration menu



Emissivity configuration



Dew point alarm configuration